INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/41600

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : C12N 15/00; A61K 39/395; C07K 16/00					
US CL : 530/387.3, 388.85, 391.3: 424/130 1 · 536/23 4 · 435/230 1 · 60 6					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum do					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 530/387.3, 388.85, 391.3; 424/130.1; 536/23.4; 435/320.1, 69.6					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where	opposition of the latest the same of the latest terms of the lates			
Y	HAYDEN et al. Single-chain mono and bisseries	appropriate, of the relevant passages	Relevant to claim No.		
-	HAYDEN et al. Single-chain mono- and bispecific biological properties and antitumor activity from C Therapeutic Immunology. 1994, Vol. 94, pages 3-1	'OS cell transient ammunitaria	1-7, 20-28, 31-40, 53- 57, 59, 62-63, 65-75, 116-119, 129-137, 140- 150, 161-169, 171-181, 238, 240-243, 251-259, 261-267, 282-285, 287- 295, 399-411		
Y	US 6,147,203 A (PASTAN et al.) 14 November 20 especially abstract, column5-6.	00 (14.11.2000), see entire document,	1-7, 20-28, 31-40, 53- 57, 59, 62-63, 65-75, 116-119, 129-137, 140- 150, 161-169, 171-181, 238, 240-243, 251-259, 261-267, 282-285, 287- 295, 399-411		
Further	documents are listed in the continuation of Box C.		<u> </u>		
		See patent family annex.	1		
* Special categories of cited documents: "T" later document published after the international filing date or p date and not in conflict with the application but cited to underst principle or theory underlying the invention		ention has nited to send			
	lication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered to the consideration of the con	claimed invention cannot be red to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventive ster	claimed invention cannot be		
	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents such combination		
		"&" document member of the same patent	family		
Date of the actual completion of the international search Date of mailing of the international search report			ch report		
29 October 2004 (29.10.2004) 0.2 NOV 2004					
Name and mailing address of the ISA/US Authorized officer					
Mail Stop PCT, Attn: ISA/US					
Commissioner for Patents P.O. Box 1450			<i>/)</i>		
Alexandria, Virginia 22313-1450 Telephone No. 57/ 3-3					
Facsimile No.	(703) 305-3230	111-272-	1600		
	/210 (second sheet) (July 1998)				
	(3110cf) (3ff) (3A9)				

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tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 6,074,644 A (PASTAN et al.) 13 June 2000 (13.06.2000), see entire document, especially column 20.	26, 28, 32, 135, 13 142, 257, 259, 26
Y	US 5,677,425 A (BODMER et al.) 14 October 1997 (14.10.1997), see entire document, especially abstract, column 3-4.	65-75, 116, 172-18 288-295
Y	US 6,482,919 B2 (LEDBETTER et al.) 19 November 2002 (19.11.2002), see entire document.	180
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INTERNATIONAL SEARCH REPORT	PCT/US03/41600
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Continuation of B. FIELDS SEARCHED Item 3: CAPLUS, MEDLINE, WEST, BIOSIS Search terms: inventor name, scfv, hinge, cysteine, fusion protein, CD19, CD3, d stabilized, constnat region.	eleted hinge, altered hinge, IgG1, IgA, IgE, disulfide
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Form PCT/ISA/210 (second sheet) (July 1998)	